BRUHATH BENGALURU MAHANAGARA PALIKE

Yelahanka Division, Yelahanka Zone

Executive Engineeer
Yelahanka Division
B.B.M.P. Bengaluru - 64
NO.EE/YNK/E-PROC/03/2017-18 Dated:03-05-2017

APPROVED TENDER SCHEDULE –'B'

Item No: 01

Name of Work:- Development and Improvements of roads and drains in ward No:01 of Yelahanka sub Division

Sl	Description	Unit	Approved Qty	Issue rates to CSR 2016-17 Dated 1-7-2017	Rate Quoted by the Contractor Approved Rates Sri R LOKESH	
					Rate	Rate in Words
1	Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3).Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Sqm	7152.68	80.56	86.20	Rupees Eighty Six and Paise Twenty Only
2	Providing granite slabs of selected quality roughly dressed and fixedin cement mortar (1:6) including fixing curing etc., complete. 7.5cm thickComplete as per specification with all lead and lifts and asper the direction of Engineer incharge	Sqm	870.00	665.68	712.28	Rupees Seven Hundred Twelve and Paise Twenty Eight Only
3	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Cum	10336.78	86.92	93.00	Rupees Ninety Three Only
4	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix1:3:6with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Cum	898.90	5348.76	5723.17	Rupees Five Thousand Seven Hundred Twenty Three and Paise Seventeen Only
5	Providing and laying Plain /reinforced cement concrete for side drains wall and bottom thickness 15cm using M20 nominal mix concrete with OPC cement at 300kg with 20mm and down size granite metal coarse aggregate at 0.69 cum and fine aggregate at 0.43 cum machine mixed well compacted for walls at bottom including centring shuttering cost of materials HOM of machineries curing etc.completeexcluding cost of steel as per MORTH specification No.1500,1700,2200Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Cum	2382.20	11032.48	11804.75	Rupees Eleven Thousand Eight Hundred Four and Paise Seventy Five Only

	Description	Unit	Approved Qty	Issue rates to CSR 2016-17 Dated 1-7-2017	Rate Quoted by the Contractor Approved Rates Sri R LOKESH	
					Rate	Rate in Words
6	KSRB 4.9.2 : Providing T .M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500 Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Tonne	142.93	64243.42	68740.46	Rupees Sixty Eight Thousand Seven Hundred Forty and Paise Forty Six Only
7	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Sqm	7096.86	1757.00	1879.99	Rupees One Thousand Eight Hundred Seventy Nine and Paise Ninety Nine Only
8	Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Sqm	573.84	4725.00	5055.75	Rupees Five Thousand Fifty Five and Paise Seventy Five Only
9	KSRRB M300-14. Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Cum	14325.41	48.76	52.17	Rupees Fifty Two and Paise Seventeen Only
10	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Cum	4989.99	1665.26	1781.83	Rupees One Thousand Seven Hundred Eighty One and Paise Eighty Three Only

	Description	Unit	Approved Qty	Issue rates to CSR 2016-17 Dated 1-7-2017	Rate Quoted by the Contractor Approved Rates Sri R LOKESH	
					Rate	Rate in Words
11	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite/trap/basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Cum	7382.87	1768.08	1891.85	Rupees One Thousand Eight Hundred Ninety One and Paise Eighty Five Only
12	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Sqm	33778.09	27.56	29.49	Rupees Twenty Nine and Paise Forty Nine Only
13	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Sqm	41371.32	3.18	3.40	Rupees Three and Paise Forty Only
14	KSRRB 500-7. Providing and applying tack coat using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Sqm	72696.17	11.66	12.48	Rupees Twelve and Paise Forty Eight Only
15	KSRRB M500- 17. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and filler, transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500-10 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507 Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Cum	1854.39	6284.74	6724.67	Rupees Six Thousand Seven Hundred Twenty Four and Paise Sixty Seven Only

	Description	Unit	Approved Qty	Issue rates to CSR 2016-17 Dated 1-7-2017	Rate Quoted by the Contractor Approved Rates Sri R LOKESH	
					Rate	Rate in Words
16	KSRRB M500- 19. Providing, laying bituminousConcrete using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous binder and filler , transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500.9 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509 Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Cum	2339.15	6723.98	7194.66	Rupees Seven Thousand One Hundred Ninety Four and Paise Sixty Six Only
17	KSRRB M600-1. Construction of dry lean cement concrete mix CC 1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383,) aggregate cement ratio not to exceed 15:1,aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601 Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Cum	238.45	3986.66	4265.73	Rupees Four Thousand Two Hundred Sixty Five and Paise Seventy Three Only
18	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M30(at 360 kg per cum coarse aggregate @ 0.69 cum and fine aggregate @0.46 cum) , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specification Complete as per specification with all lead and lifts and asper the direction of Engineer	Cum	450.89	6217.96	6653.22	Rupees Six Thousand Six Hundred Fifty Three and Paise Twenty Two Only

	Description	Unit	Approved Qty	Issue rates to CSR 2016-17 Dated 1-7-2017	Rate Quoted by the Contractor Approved Rates Sri R LOKESH	
					Rate	Rate in Words
19	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 4kms. Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Cum	24662.18	80.80	86.46	Rupees Eighty Six and Paise Forty Six Only
20	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	Sqm	3576.08	542.72	580.71	Rupees Five Hundred Eighty and Paise Seventy One Only
21	KSRRB M800-35. Supply and installtion of moulded Shank Raised Pavement Markers made of polycarbonate and ABS (Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 - DO III Dt 11.06.1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessory test certification from the certified laboratory. Third party test certificates from a reputed test laboratory shall be submitted with seal and Signature in Originals. Complete as per specification with all lead and lifts and asper the direction of Engineer incharge	No.	300.00	359.34	384.49	Rupees Three Hundred Eighty Four and Paise Forty Nine Only

Signature of the Contractor

Executive Engineer,
Yelahanka Division,
BBMP, Bengaluru-64.